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Title: **JP60179190A2: DEPHOSPHORIZING APPARATUS**Derwent Title: Apts. to dephosphorise e.g. water in lake - has fluidising tube with smaller cross section area than stirrer tank attached to lower part of this tank [[Derwent Record](#)]Country: JP Japan
Kind: A (See also: [JP02056955B4](#))Inventor: **HIRASAWA IZUMI;**Assignee: **EBARA INFILCO CO LTD**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **1985-09-13 / 1984-02-27**Application Number: **JP1984000034297**IPC Code: Advanced: **C02F 1/28;**
Core: more...
IPC-7: **C02F 1/28;**Priority Number: **1984-02-27 JP1984000034297**

Abstract: PURPOSE: To dephosphorize efficiently and stably over a long period of time by opening an original water inflow pipe to an agitation vessel, providing a treated water discharge means between the agitation vessel and a fluidization cylinder, and allowing a granular dephosphorizing material to be present at the inside of the vessel.

CONSTITUTION: The original water contg. phosphates is allowed to flow into an agitation vessel 1 from an inflow pipe 7. An alkaline agent, etc. is injected from a chemical feeder 8 to regulate the pH of the liquid in the apparatus to 6W10, mixed, and agitated. A dephosphorizing material 11 having 0.1W0.2mm size is added into the agitation vessel 1 and agitated to dephosphorize the original water to some extent. Then the water is circulated by a pump 5 to the bottom part of a fluidization cylinder 4 through a circulating pipeline 6. A fluidized bed of the dephosphorizing material 11 having 0.2W0.6mm size is formed by the water sent from the bottom part. The original water is further dephosphorized by the contact with the fluidized dephosphorizing material 11, and flows out from an outflow port 9 through a treated water outflow pipe 10.

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